

N/A

1651

#1

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/361,630

DATE: 11/01/1999
TIME: 11:03:21

Input Set: I361630.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

P.S

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MAR 22 2000
TC 1600 MAIL ROOM

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1  <110> APPLICANT: Zuker, Charles S.
2      Adler, Jon Elliot
3      Lindemeier, Juergen
4      Cowan, David
5      The Regents of the University of California
6  <120> TITLE OF INVENTION: Nucleic Acids Encoding Proteins Involved in Sensory
7      Transduction
8  <130> FILE REFERENCE: 02307E-084210US
9  <140> CURRENT APPLICATION NUMBER: US/09/361,630
10 <141> CURRENT FILING DATE: 1999-07-27
11 <150> EARLIER APPLICATION NUMBER: US 60/094,464
12 <151> EARLIER FILING DATE: 1998-07-28
13 <160> NUMBER OF SEQ ID NOS: 24
14 <170> SOFTWARE: PatentIn Ver. 2.0
15 <210> SEQ ID NO 1
16 <211> LENGTH: 388
17 <212> TYPE: PRT
18 <213> ORGANISM: Rattus sp.
19 <220> FEATURE:
20 <223> OTHER INFORMATION: rat taste cell polypeptide (TCP) #1 amino acid
21     sequence
22 <400> SEQUENCE: 1
23     Met Ile Arg His Glu Gln Ser Leu Val Gly Gly Ser Gln Ala Pro Leu
24         1             5             10             15
25     Gly Leu Leu Leu Ile Cys Leu Gly Leu Pro Gly Leu Phe Ala Arg Ser
26             20             25             30
27     Ile Gly Ala Pro Glu Glu Lys Val Ser Pro His Ser Gly Gln Pro Ser
28             35             40             45
29     Phe Thr Ser Leu Leu Asn Ser Gly Gln Pro Gln Pro Lys Pro Asp Ser
30             50             55             60
31     Val Asn Asn Glu Leu Pro Gly Val Leu Pro Arg Leu Ser Glu Ser Pro
32             65             70             75             80
33     Gln Asp Gly Ser Leu Pro Lys Gly Gly Ser Glu Val Pro Gly Gly Pro
34             85             90             95
35     Pro Phe Trp Gly Arg Pro Pro Phe Trp Gly Pro Pro Pro Met Glu Ser
36             100            105            110
37     Trp Pro Ser Glu Asp Pro Gln Gln Gly Met Phe Ala Asp Ala Glu Asp
38             115            120            125
39     His Leu Glu Pro Val Leu Pro Glu Ala Leu Ser Tyr Leu Ser Arg Asp
40             130            135            140
41     Ser Pro Leu Pro Glu Ala Ser Ser Ala His Val Lys Gln Pro Ser Pro
42             145            150            155            160
43     Glu Ala Ser Tyr Pro Leu Asp Thr Glu Pro Glu Pro Gln Pro Gly Ser
44             165            170            175

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45   Arg Ser Leu Glu Thr Glu Ala Glu Ala Phe Ala Arg Ser Pro Phe Trp
46               180                      185                      190
47   Phe Leu Val His Lys Leu Leu Pro Gly Val Ser Gly Arg Ile Leu Asn
48               195                      200                      205
49   Pro Gly Thr Ser Trp Gly Ser Gly Gly Ala Gly Thr Gly Trp Gly Thr
50               210                      215                      220
51   Arg Pro Met Pro Tyr Pro Ser Gly Ile Trp Gly Ser Asn Gly Leu Val
52   225                      230                      235                      240
53   Ser Gly Thr Ser Leu Val Gly Asn Gly Arg Tyr Pro Ala Gly Ile Trp
54               245                      250                      255
55   Gly Gly Asn Gly Arg Tyr Pro Val Gly Ile Trp Gly Gly Ser Gly Arg
56               260                      265                      270
57   Tyr Pro Ala Gly Ile Trp Gly Gly Ser Gly Arg Tyr Pro Ala Gly Ile
58               275                      280                      285
59   Trp Gly Gly Asn Gly Arg Tyr Pro Val Gly Ser Trp Gly Gly Asn Gly
60   290                      295                      300
61   Arg Tyr Pro Val Gly Ser Trp Gly Gly Ile Gly Arg Tyr Pro Val Gly
62   305                      310                      315
63   Asn Trp Gly Gly Asn Gly Gln Tyr Pro Ala Gly Ser Trp Gly Ser Asn
64               325                      330                      335
65   Gly Arg Tyr Pro Ala Gly Ser Trp Gly Pro Asn Cys Gln Tyr Pro Ala
66               340                      345                      350
67   Gly Ser Arg Gly Pro Asn Cys Gln Tyr Pro Pro Gly Ser Trp Gly Ala
68               355                      360                      365
69   Lys Gly Gln Lys Arg Leu Pro Pro Gly Val Lys Pro Pro Gly Ser Ser
70   370                      375                      380
71   Gly Gly Ser Pro
72   385

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73 <210> SEQ ID NO 2

74 <211> LENGTH: 349

75 <212> TYPE: PRT

76 <213> ORGANISM: Mus sp.

77 <220> FEATURE:

78 <223> OTHER INFORMATION: mouse taste cell polypeptide (TCP) #1 amino acid
79 sequence

80 <400> SEQUENCE: 2

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81   Met Gln Ser His Ala Gly Gly Ser Arg Ala Pro Leu Gly Leu Leu Leu
82   1                      5                      10                      15
83   Ile Cys Leu Cys Leu Pro Gly Leu Phe Ala Arg Ser Thr Gly Ala Pro
84               20                      25                      30
85   Glu Glu Lys Ala Ser Pro His Ser Gly Gln Pro Ser Phe Thr Ser Leu
86               35                      40                      45
87   Leu Asn Pro Gly Gln Leu Gln Pro Lys Pro Asp Pro Val Asn Asn Glu
88   50                      55                      60
89   Leu Leu Gly Val Leu Pro Arg Leu Ser Glu Ser Pro Gln Asp Gly Ala
90   65                      70                      75                      80
91   Leu Pro Glu Gly Gly Ser Glu Val Pro Asn Gly Pro Pro Phe Trp Gly
92               85                      90                      95
93   Pro Pro Pro Met Glu Ser Trp Pro Ser Glu Asp Pro Gln Gln Gly Met
94               100                      105                      110

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TCP 600
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TCP 600

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RAW SEQUENCE LISTING
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DATE: 11/01/1999

TIME: 11:03:21

Input Set: I361630.RAW

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95      Ala Ala Val Ala Glu Asp Gln Leu Glu Gln Met Leu Pro Glu Ala Leu
96              115                      120                      125
97      Pro Tyr Leu Ser Arg Gly Gly Arg Leu Pro Glu Ala Ser Ser Ala Arg
98              130                      135                      140
99      Leu Arg Gln Pro Ser Pro Ala Ala Ser Tyr Pro Gln Asp Ser Glu Ala
100     145                      150                      155                      160
101     Gly Leu Gln Pro Gly Ser Ser Ser Leu Glu Thr Glu Ala Glu Ala Phe
102              165                      170                      175
103     Ala Arg Ser Pro Phe Trp Phe Leu Ile His Lys Leu Leu Pro Gly Ser
104              180                      185                      190
105     Ser Gly Arg Ile Leu Arg Pro Gly Thr Ser Trp Gly Ser Gly Gly Ala
106              195                      200                      205
107     Gly Thr Gly Trp Gly Thr Arg Pro Met Pro Tyr Pro Ser Gly Ile Trp
108              210                      215                      220
109     Gly Ser Asn Gly Leu Val Ser Gly Thr Ser Leu Gly Gly Arg Gly Pro
110     225                      230                      235                      240
111     Tyr Pro Val Arg Ile Trp Gly Arg Asn Gly Trp Tyr Pro Leu Arg Ile
112              245                      250                      255
113     Leu Gly Gly Asn Gly Arg Tyr Pro Pro Val Gly Thr Trp Gly Gly Tyr
114              260                      265                      270
115     Gly Gln Tyr Pro Pro Val Gly Thr Trp Gly Gly Tyr Gly Gln Tyr Pro
116              275                      280                      285
117     Pro Val Gly Pro Trp Gly Gly Tyr Gly Gln Tyr Pro Pro Val Gly Thr
118              290                      295                      300
119     Trp Gly Ala Asn Cys Gln Tyr Pro Ala Gly Ser Arg Arg Pro Asn Cys
120     305                      310                      315                      320
121     Arg Tyr Pro Ala Gly Ser Trp Gly Thr Lys Gly Gln Asn Arg Leu Pro
122              325                      330                      335
123     Pro Gly Ala Lys Arg Pro Gly Ser Ser Gly Ile Thr Pro
124              340                      345
125     <210> SEQ ID NO 3
126     <211> LENGTH: 731
127     <212> TYPE: PRT
128     <213> ORGANISM: Rattus sp.
129     <220> FEATURE:
130     <223> OTHER INFORMATION: rat taste cell polypeptide (TCP) #2 amino acid
131     sequence
132     <400> SEQUENCE: 3
133     Met Asp Lys Gln Gln Phe Pro Ala Ala Gly Ile Leu Leu Ala Ala Phe
134     1              5              10              15
135     Leu Val Val Ser Ala Ser Thr Leu Thr Leu Leu Ser Thr Asn Gly Asp
136              20              25              30
137     Pro Asp Gln Phe Pro Ser Asp Pro Gly Thr Ser Ala Gln Gln Ser Asn
138              35              40              45
139     Asn Ile Leu Leu Gly Ile Leu Thr Asp Asn Thr Gly Ser Ile Asn Ser
140     50              55              60
141     Thr Glu Arg Glu Ser Glu Ala Leu Gly Arg Arg Ala Gly Ala Phe Ser
142     65              70              75              80
143     Thr Glu Gly Ala Gly Gly Gln Glu Ser Pro Pro Met Pro Gly Pro Ser
144              85              90              95

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RAW SEQUENCE LISTING
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145	Gly	Thr	Val	Thr	Pro	Glu	Pro	Ile	Arg	Ser	Ala	Leu	Thr	Thr	Ser	Ala
146				100					105					110		
147	Ala	Tyr	Met	Ala	Ala	Asp	Ser	Gln	Pro	Val	Ser	Pro	Glu	Ala	Glu	Pro
148			115					120					125			
149	Val	Glu	Glu	Ile	Leu	Ala	Leu	Gly	Ile	Leu	Glu	Thr	Ile	Thr	Met	Ser
150			130					135					140			
151	Ser	Pro	Gln	Pro	Ser	Pro	Ile	His	Gly	Ser	Glu	Pro	Lys	Phe	Lys	Lys
152			145				150					155				160
153	Ala	Phe	Arg	Pro	Pro	His	Leu	Leu	Trp	His	Thr	Pro	Asn	Pro	Thr	Val
154					165					170					175	
155	Gln	Met	Leu	Val	Pro	Ala	Trp	Arg	Asn	Gly	His	Ser	Arg	Pro	Glu	Ala
156				180					185					190		
157	Ser	Ser	Ser	Val	Ala	Leu	Ala	Pro	Arg	Thr	Ser	Leu	Gly	Leu	Pro	Val
158				195					200					205		
159	Phe	Pro	Trp	Met	Pro	Asn	Ile	Leu	Lys	Ala	Thr	Glu	Pro	Leu	Leu	Pro
160			210					215					220			
161	Ala	Ser	Pro	Gly	Arg	Leu	Gly	Leu	Asp	Leu	Thr	Ser	Gln	Val	Gly	Ser
162			225				230					235				240
163	Gly	Ser	Phe	Glu	Asp	Thr	Gly	Pro	Val	Ser	Gly	Gly	Ala	Asn	Asp	Ser
164					245					250					255	
165	Pro	Gln	Pro	Pro	Val	Ser	Ala	Ile	Val	Ser	Ser	Thr	Thr	Asp	Ser	Ser
166				260						265				270		
167	Ile	Lys	Thr	Ser	Asn	Leu	Ala	Pro	Gln	Thr	Ala	Leu	Gln	Pro	Gln	Pro
168				275					280					285		
169	Pro	Gly	Pro	Trp	Phe	Pro	Pro	Ala	Gln	Ser	Ala	Cys	Pro	Pro	Ser	Leu
170			290					295					300			
171	Ser	Ser	Thr	Ser	Pro	Ala	Leu	Pro	Leu	Pro	His	Thr	Ala	Leu	Ala	Tyr
172			305				310					315				320
173	Thr	Glu	Ser	Ser	Val	Asp	Ala	Glu	Pro	Thr	Gln	Ala	Ser	Thr	Leu	Pro
174					325						330				335	
175	His	Leu	Gly	Gln	Ala	Met	Ser	Leu	Gln	Asn	Leu	Ser	Phe	Ser	Thr	Pro
176				340						345					350	
177	Gly	Pro	Arg	His	Thr	Thr	His	Ser	Val	Thr	Phe	Arg	Thr	Asn	Ser	Ser
178				355					360					365		
179	Cys	Phe	Arg	Ile	Val	Val	Trp	Ser	Leu	Val	Pro	Leu	Glu	Cys	Trp	Leu
180			370					375					380			
181	Leu	Asn	Arg	Leu	Ile	Cys	Tyr	Gln	Leu	Gln	Leu	Ile	Tyr	His	Glu	Ala
182			385				390					395				400
183	Phe	Ser	Asn	Phe	Lys	Asn	Val	Ser	Ala	Leu	Leu	Phe	Arg	Pro	Gly	Ser
184					405						410				415	
185	Thr	Glu	Val	Lys	Ala	Ser	Leu	Val	Phe	Gly	Pro	Pro	Asp	Pro	Ser	Ala
186				420						425					430	
187	Leu	Glu	Ile	Leu	Trp	Thr	Leu	Tyr	Arg	Lys	Val	Lys	Ser	Ser	Arg	Trp
188				435					440					445		
189	Ser	Leu	Gly	Tyr	Leu	Ser	Leu	Ala	Asp	His	Gly	Leu	Ser	Ser	Asp	Gly
190			450					455					460			
191	Tyr	Asn	Thr	Asn	Asp	Leu	Arg	Gln	Glu	Thr	Ile	Asn	Ile	Ser	Phe	Thr
192			465				470					475				480
193	Leu	Met	Lys	Pro	Phe	Leu	Pro	Gln	Leu	Leu	Leu	Pro	Ser	Ser	Gln	Pro
194					485					490					495	

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195      Phe Leu Leu Met Glu Lys Gln Thr Leu Gln Leu Val Thr His Glu Val
196                      500                      505                      510
197      Ser Arg Phe Tyr Lys Ala Glu Leu Gln Glu Gln Pro Leu Leu Leu Phe
198                      515                      520                      525
199      Ser Asn Val Lys Glu Trp Val Ser Ile Tyr Val Glu Tyr Lys Phe Lys
200                      530                      535                      540
201      Ser Pro Ile Pro Asn His Leu Gln Gly Leu Ala Ser His Leu Ala His
202                      545                      550                      555                      560
203      His Ile Thr Asp Pro Thr Ile Gln Lys Ser Ser Ile Val Ala Asn Gly
204                      565                      570                      575
205      Glu Lys Ala Asp Leu Val Phe Tyr Glu Thr Trp Leu Leu Ile Leu Gly
206                      580                      585                      590
207      Tyr Pro Phe Thr Lys Ala Leu Glu Asn Lys Thr Ser Ser Glu Ser Gln
208                      595                      600                      605
209      Lys Leu Arg Gly Leu Leu Thr Arg Gln Leu Thr Ser Val Leu Gln Pro
210                      610                      615                      620
211      Leu Gln Asn Phe Gly Gln Val Val Val Glu Glu Phe His Gln Glu Pro
212                      625                      630                      635                      640
213      Leu Thr Ala Arg Val Gln Thr Ala Phe Phe Glu Ala Ala Pro Ala Gln
214                      645                      650                      655
215      Ala Val Ile Gln Asp Ser Met Leu Gln Ala Leu Gly Ser Leu Gln Glu
216                      660                      665                      670
217      Ala Glu Gly Leu Gln Leu Glu Met Leu Leu Pro Val Leu Gly Thr Pro
218                      675                      680                      685
219      Ser Ser Arg Ala Ser Arg Gly Pro Arg Gly Gly Ala Val Leu Asn Leu
220                      690                      695                      700
221      Gln Phe Ile Thr Ser Leu Phe Val Leu Val Ala Leu Cys Thr Ala Leu
222                      705                      710                      715                      720
223      Pro Phe Thr Lys Lys Gln Thr Pro Tyr Leu Phe
224                      725                      730
225      <210> SEQ ID NO 4
226      <211> LENGTH: 729
227      <212> TYPE: PRT
228      <213> ORGANISM: Mus sp.
229      <220> FEATURE:
230      <223> OTHER INFORMATION: mouse taste cell polypeptide (TCP) #2 amino acid
231      sequence
232      <400> SEQUENCE: 4
233      Met Asp Lys Gln Trp Phe Pro Ala Ala Gly Ile Leu Leu Ala Ala Leu
234      1                      5                      10                      15
235      Leu Val Val Ser Ala Ser Thr Leu Thr Leu Leu Ser Thr Asn Glu Asp
236                      20                      25                      30
237      Pro Glu Gln Phe Pro Ser Ala Pro Gly Thr Ser Ala Gln Gln Ser Ser
238                      35                      40                      45
239      Arg Ile Leu Leu Gly Ile Leu Thr Asp Val Thr Gly Gly Ile Asn Ser
240                      50                      55                      60
241      Val Glu Arg Glu Pro Glu Ala Leu Gly Arg Arg Ala Gly Gly Leu Ser
242                      65                      70                      75                      80
243      Thr Glu Gly Ala Gly Gly Gln Glu Ser Pro Ser Met Pro Gly Pro Ser
                      85                      90                      95

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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VERIFICATION SUMMARY
PATENT APPLICATION US/09/361,630

DATE: 11/01/1999
TIME: 11:03:21

Input Set: I361630.RAW

Line ? Error/Warning

Original Text

787 W "N" or "Xaa" used: Feature required

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